Info-Hams Digest   Sat, 24 Apr 93   Volume 93 : Issue 495

Today's Topics:
                    9913 Equivalent Water Trouble
                ARRL DX Bulletin #20 - April 22, 1993
                    BALLOON LAUNCH ANNOUNCEME
                  Cheaper HT or Car Mobil Unit
                       cw software (2 msgs)
         Daily Solar Geophysical Data Broadcast for 23 April
                        Fact or Fiction???
            HT or rig decided and now a Kenwood TH8A
                        IRON ON PCB RESIST
                        KDK 2025 Manual
                   LH5NP from the North Pole
                   Passed Exam... need sugge
                       R5/R5 Discussion
                     RACES Bulletin #270
                     RACES Bulletin #271
                        TH78 Cloning
                   Traveling into Canada

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

It is rumored that the condensation enters 9913 thru it's skin. It
supposedly breathes a bit more than it should. So, you may not have a
connector problem. But, I'm going to open up another sore topic, about
coax which has had water thru it. I firmly believe that once water
wicks its way thru the braid, oxidation will start, and the braid
will deteriorate over time. Even if you could dry the coax out
by forcing warm, dry air thru it, my opinion is, you're wasting
your time. You shoud discard that coax, as you can't really stop
the oxidation of the braid. Some broadcast engineers on this net have
told me that I'm crazy, but I have seen this happen a few times.
If you are going thru the trouble of taking the coax down from the
tower, I recommend replacing it. 9913 should come with warnings
about burying it, or putting it in damp conduits. My opinions..
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*   Pat Masterson   D12-25 | KE2LJ@KC2FD   *
*   Grumman Data Systems | 516-346-6316.   *
*   Bethpage, NY 11746 | bat@gdstech.grumman.com   *

Date: Thu, 22 Apr 1993 19:15:01 MDT
From: saimiri.primate.wisc.edu!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
gatech!asuvax!ncar!destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!alberta!
adec23!ve6mgs!usenet@ames.arpa
Subject: ARRL DX Bulletin #20 - April 22, 1993
To: info-hams@ucsd.edu

ZCZC AE46
QST de W1AW
DX Bulletin 20 ARLD020
~From ARRL Headquarters
Newington CT April 22, 1993
To all radio amateurs

SB DX ARL ARLD020
ARLD020 DX news

Thanks to Bob, W5KNE; QRZ DX; Chod, VP2ML; and The DX Bulletin for
the items in this week's bulletin.

UGANDA. Jim, KF7E, has joined the 5X1XA/5X1XB DXpedition, although
he has yet to receive his own call sign. This operation is slated
for April 27 through May 12. Jim, 5X1B, has been on 20 meter CW
recently.

ETHIOPIA. ET3DX, by JH1AJT and DJ9ZB; and ET3TI by OH8MVT continue
to be active. Sid, ET3SID, shows up mainly on weekends with RTTY.

MADAGASCAR. 5R8DP operated by JA1OEM will be finishing up this
weekend, though he hopes to work stateside on 80 meters before
leaving.

SAINT CHRISTOPHER AND NEVIS ISLANDS. Look for Jack, KB8WC; Bruce,
N8LXS; and Scott, KO8O, to be active from April 29 through May 5.
Although plans are for an all band effort, extra attention will be
paid to 40 and 80 meter CW.

BOSNIA/HERZEGOVINA. 4N4XX says that stations in Bosnia will begin
using call signs with the prefix T9 sometime in May.

PACIFIC JOURNEY. Jakob, HB9TL, will be touring the Pacific during
May and June. Here are some of the planned stops:

     Papua New Guinea, as P29TL, from from May 5 through 13,
     Solomon Islands from May 16 through 19,
     Vanuatu from May 21 through 26,
     Fiji, as 3D2TL, from May 27 through June 2,
     Wallis Island, as FW/HB9TL, from June 3 through 8,
     Tonga from June 10 through 13,
     Western Samoa from June 14 through 17, and
     American Samoa as KH8/HB9TL from June 18 through 20.

THIS WEEKEND ON THE RADIO. With big guns galore attending the
Dayton Hamvention this weekend, competition on the bands may be a
little less steep this weekend.

The Helvetia Contest, sponsored by the Swiss amateur society USKA,
runs for 24 hours starting 1300z Saturday. Look for both CW and
phone activity on the non-WARC HF bands and 160 meters. For more
details, check out Contest Corral on page 106 of April QST.

Sunday the 25th is International Marconi Day, in commemoration of
Guglielmo Marconi's birthday in 1874.
NNNN

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James J. Reisert   Internet: reisert@mast.enet.dec.com
Digital Equipment Corp.   UUCP: ...decwrl!mast.enet.dec.com!reisert
146 Main Street   - ML03-6/C9 Voice: 508-493-5747
Maynard, MA 01754   FAX: 508-493-0395

Date: 20 Apr 93 05:56:52 GMT
From: munnari.oz.au!metro!sequoia!ultima!kralizec.zeta.org.au!ixgate!

merv.james@tcgould.tn.cornell.edu
Subject: BALLOON LAUNCH ANNOUNCEME
To: info-hams@ucsd.edu

Original to: Xcalibur@cis.umassd.edu
 On 04-15-93 XCALIBUR@CIS.UMASSD.EDU wrote to ALL...

 X >   WEST VIRGINIA HIGH ALTITUDE BALLOON LAUNCH
 X >
 X >   A high altitude balloon carrying three separate amateur radio
 X > transmitters is set to be launched from West Virginia Saturday
 X > morning,

     Could you send the "Keps" please.

--- TMail v1.31.3
 * Origin: Oracle PC-Network - Sth Aust HAM Support (08) 234-0791
(3:800/804)

Date: Fri, 23 Apr 1993 22:56:32 GMT
From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!usc!howland.reston.ans.net!gatech!
willis1.cis.uab.edu!spam.dom.uab.edu!user@ames.arpa
Subject: Cheaper HT or Car Mobil Unit
To: info-hams@ucsd.edu

In article <BAT.93Apr20084203@gdstech.GRUMMAN.COM>, bat@gdstech.GRUMMAN.COM
(Pat Masterson) wrote:
>
> Most new Hams who get on 2 meters acquire an HT first. This way,
> they have a radio to use in the car, and at home as a base or
> packet station. But, they start adding accessories, like
> speaker mikes, 12 volt lighter cords, amplifiers, etc. Soon,
> the cost of the setup is near the cost of a good mobile rig,

> which can also be used at home for base or packet work.
> I wore out 3 connectors on top of my HT with the constant
> moving of the radio. So, I got an IC-229h, and it's much easier
> on me.

Yep, I did that too. I acquired an old Icom 22S for packet use for $60
(and probably overpaid, but the ham was helpful and friendly) and have
changed frequencies by recrystalling and doing another mod that gives
me 600kHz offsets for repeater use. I have gotten good use out of the
HT, and expect to go add a mobile rig in a year. I feel I got more
use out of HT first than I would therwise. It is a lot easier to move
the HT around than the mobile unit would be.

I'll post instructions for the IC22S mod when I finish hooking up the
TNC and confirm it works. (And will acknowledge all those who sent
advice on it also)

Actually the most expensive thing you did was get an amateur license :-)

Steve KD4TTC

Date: Sat, 17 Apr 1993 17:14:22 GMT
From: pacbell.com!sgiblab!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
newsserver.jvnc.net!louie!udel!news.intercon.com!psinntp!gdstech!gdstech!
bat@network.UCSD.EDU
Subject: cw software
To: info-hams@ucsd.edu

 One of the best CW learning programs for the IBM is SuperMorse.
Using it for a few weeks, I easily passed my 20. It is a very
good training tool, with lots of features. You can do any
word/character spacing you want. Look for SM316.ZIP at the
usual archive sites (like simtel20). -pat
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*   Pat Masterson   D12-25 | KE2LJ@KC2FD   *
*   Grumman Data Systems | 516-346-6316.   *
*   Bethpage, NY 11746 | bat@gdstech.grumman.com   *

Date: 24 Apr 93 00:50:51 GMT
From: amdahl!grafex!ka6etb@uunet.uu.net
Subject: cw software
To: info-hams@ucsd.edu

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bat@gdstech.GRUMMAN.COM (Pat Masterson) writes:

>  One of the best CW learning programs for the IBM is SuperMorse.
> Using it for a few weeks, I easily passed my 20. It is a very
> good training tool, with lots of features. You can do any
> word/character spacing you want. Look for SM316.ZIP at the
> usual archive sites (like simtel20). -pat


Also available from HAM-server.

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Date: 24 Apr 93 03:12:39 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 23 April
To: info-hams@ucsd.edu


!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 113, 04/23/93
10.7 FLUX=121.5  90-AVG=131        SSN=154      BKI=2213 2323  BAI=009
BGND-XRAY=B2.0     FLU1=8.1E+05  FLU10=1.5E+04  PKI=3333 1333  PAI=011
  BOU-DEV=012,016,007,033,014,038,013,035   DEV-AVG=021 NT     SWF=00:000
 XRAY-MAX= C1.1   @ 0239UT    XRAY-MIN= B1.9   @ 0923UT   XRAY-AVG= B2.8
NEUTN-MAX= +003%  @ 1645UT    NEUTN-MIN= -003%  @ 1200UT  NEUTN-AVG= -0.1%
  PCA-MAX= +0.1DB @ 2350UT     PCA-MIN= -0.3DB @ 2315UT    PCA-AVG= -0.0DB
BOUTF-MAX=55410NT @ 2322UT    BOUTF-MIN=55363NT @ 1748UT  BOUTF-AVG=55392NT
GOES7-MAX=P:+118NT@ 1952UT    GOES7-MIN=N:-008NT@ 0952UT  G7-AVG=+087,+039,+010
GOES6-MAX=P:+134NT@ 1612UT    GOES6-MIN=N:-100NT@ 0426UT  G6-AVG=+101,-012,-050
 FLUXFCST=STD:125,125,130;SESC:125,125,130 BAI/PAI-FCST=010,015,015/010,015,015
    KFCST=2225 4221 2224 4221  27DAY-AP=011,013   27DAY-KP=3232 3323 3233 2234
 WARNINGS=*SWF
   ALERTS=
!!END-DATA!!

NOTE: The Effective Sunspot Number for 22 APR 93 was  42.8.
      The Full Kp Indices for 22 APR 93 are: 4o 3o 3+ 2+   3- 3+ 4- 3+

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Date: 23 Apr 93 16:15:08 GMT
From: hp-cv!hp-pcd!hplsla!dickrb@hplabs.hpl.hp.com
Subject: Fact or Fiction???
To: info-hams@ucsd.edu


Greetings -

I have seen the fingerprinting system and it does indeed work...
Phil Ferrell, PhD - K7PF, is the designer of the system (patent holder
too) and has used it as a watchdog on the Seattle Repeater (146.88/28)
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for years. He built the prototype units for the FCC years ago and has
been mfg follow-on systems for them.

The proto system had an IBM PC as the system controller and used a
modified Bearcat scanner as its receiver. It is interesting to see the
differences in signatures between similar radios (say a bunch of IC-2AT's)
They are ALL different and easily identified!

Contact Phil for additional information.

de W7WKR

Date: 23 Apr 93 17:54:15 GMT
From: ogicse!cs.uoregon.edu!news.uoregon.edu!netnews.nwnet.net!serval!
wsuaix.csc.wsu.edu!i7994779@network.UCSD.EDU
Subject: HT or rig decided and now a Kenwood TH8A
To: info-hams@ucsd.edu

In article   writes:
>
> Most new Hams who get on 2 meters acquire an HT first. This way,
>they have a radio to use in the car, and at home as a base or
>packet station. But, they start adding accessories, like
>speaker mikes, 12 volt lighter cords, amplifiers, etc. Soon,
>the cost of the setup is near the cost of a good mobile rig,
>which can also be used at home for base or packet work.

I think I have decided to get a HT when I get my license. I am thinking about the
Kenwood TH8A (I think that is right) It seems to be modifiable to get
a lot more than 2mtr and that will be a big PLUS for me!!

What is the going rate on one of those now anyway?

Pat at WSU
i7994779@wsuaix.csc.wsu.edu

Date: Fri, 23 Apr 1993 17:19:31 GMT
From: saimiri.primate.wisc.edu!sdd.hp.com!hpscit.sc.hp.com!news.dtc.hp.com!
srgenprp!glenne@ames.arpa
Subject: IRON ON PCB RESIST
To: info-hams@ucsd.edu

bsm3708@ritvax.isc.rit.edu (bsm3708@ritvax.isc.rit.edu) wrote:
: Hi, I have used the TECH IRON on to copper pcb

   After a lot of effort, I had limited luck with the TEK film. The
biggest problem was getting good adhesion of the toner from the copier
or laser printer to the film. I tried mand different machines but much
of the time sections of it would either fall off or smear or else come
off when I peeled the film away. Getting the iron-on phase right takes
some learning too. I was successful in making some moderately critical
circuits, edge-coupled microstrip bandpass filters and such, however I
finally gave up when I found a better way.

o   The better way

   I got some of the new DynaArt Designs material that is now offered
from quite a large number of suppliers. It is basically paper with a
transparant water soluable carrier onto which you copy or print the
toner. You then iron-on as with the TEK film but rather than peel away
the film you just put the whole works, PC board and all, into water and
the carrier dissolves, the paper backing comes off leaving *all* the toner
on the copper. This works *much* better and also gets from design (or
scan) to toner with fewer steps much of the time. I can usually go from
the PC board layout tool on the computer to an etched board which is
ready to have parts loaded in under an hour. About the most important
aspect of this is to have good toner which gives saturated black on
paper. The manufacturer suggests some sources of particularly good
toners. I just used the standard paper toner which came with my HP
laser printer and wasn't even a new cartridge.

   I've used the process to generate fairly width-critical circuits, 90
degree microstrip hybrids and complete image reject mixers at 1200 MHz,
with quite good results. I even managed to get reasonable yield on some
very narrow lines which happened to be on one design, one pixel wide
at 300 DPI which amounts to about .003". I don't recommend trying to do
fine line process this way but it gives an idea of how well it all
worked.

 The material is $2-3 per A size sheet but you can pack multiple
circuits onto a sheet and only cut out and use the ones you want. I
think that the cost/effectiveness ratio is much better with this process
than with anything else I've tried. I don't intend to use the TEK stuff
again for anything.

A bunch of people appear to handle the DynaArt material.

DynaArt Designs
3535 Stillmeadow Lane
Lancaster, California 93536
805.943.4746   (0700-1700 PST)

I bought mine from

DC Electronics
P. O. Box 3203
Scottsdale, AZ   85271

800.467.7736
800.423.0070

I think it's about $15 for 5 sheets.

  I have no connection with either of these places except as a customer.

N6GN @ K3MC
amateur IP: glenn@SantaRosa.ampr.org
Internet: glenne@sr.hp.com

Date: 23 Apr 93 18:11:14 GMT
From: sdd.hp.com!usc!cs.utexas.edu!not-for-mail@hplabs.hpl.hp.com
Subject: KDK 2025 Manual
To: info-hams@ucsd.edu

  We are looking for a manual for the above mentioned 2m rig (KDK 2025).

  Reasonable copying costs gladly paid.

  Please respond via email to N5UWY (plaws@uafhp.uark.edu) or K5GOE
(jsc@engr.uark.edu).

  TNX ES 73

PS- Our SM maintains a database of manuals, but this one is not in it.

Peter Laws|GEnie:P.LAWS1|"The '90s are gonna make the '60s|plaws@uafhp.uark.edu
n5uwy@ka5bml.ar.usa.noam| look like the '50s" --D. Hopper|plaws@uafsysb.bitnet

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Date: Fri, 23 Apr 1993 14:01:31 GMT
From: pipex!sunic!aun.uninett.no!nuug!statoil!ddm3!magne@uunet.uu.net

Subject: LH5NP from the North Pole
To: info-hams@ucsd.edu

The arctic area service of the QST-LA (by LA1K last sunday)
reported that LA5NM, Mathias Bjerrang,
is on his way to the North Pole (I guess with a crew of scientists).
Callsigns for the mission will be LA5NM/VE2 and LH5NP. The first one
before they leave Canada, and the second one on the journey up north
and from the North Pole point.

The expedition is scheduled to last the period from 28. to 30 of
april. No frequency info is known to date, but listen at the usual DX-freqs.

73 de Magne LA1BFA
(magne@statoil.no)

Date: 23 Apr 1993 17:03:02 GMT
From: topaz.bds.com!topaz.bds.com!ron@uunet.uu.net
Subject: Passed Exam... need sugge
To: info-hams@ucsd.edu

> True, and the other thing to mention is 70cm.

Mention 70cm, but it many areas of the country it's pretty dead.
While it was quite active in NJ when I bought my FT470, it's pretty
useless down here in the DC area (plenty of repeaters, just no one on
them, unless, of course, that's what your after).

-Ron

Date: Fri, 23 Apr 1993 19:22:02 GMT
From: spooky!witr@uunet.uu.net
Subject: R5/R5 Discussion
To: info-hams@ucsd.edu

In article <1qekq5INN62n@topaz.bds.com>, ron@topaz.bds.com (Ron Natalie) writes:

| I don't think it will hurt to guy it. I don't think it's required though.
| There's nothing in the instructions mentioning guying.

As I said before, my R7 failed at the glue joint, and a Cushcraft tech
told me that they have a ``few'' failures a year.

I think the design is faulty, and I'd recommend some guying.

--
 Robert Withrow, Tel: +1 617 598 4480, Fax: +1 617 598 4430, Net: witr@rwwa.COM
 R.W. Withrow Associates, 21 Railroad Ave, Swampscott MA 01907-1821 USA

Date: 24 Apr 93 16:49:25 GMT
From: news-mail-gateway@ucsd.edu
Subject: RACES Bulletin #270
To: info-hams@ucsd.edu

BID : $RACESBUL.270

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL RACES OPERATORS IN CA (ALLCA: OFFICIAL)
       ALL AMATEURS U.S.   (@ USA: INFORMATION)
FROM: CA STATE OFFICE OF EMERGENCY SERVICES (W6HIR @ WA6NWE.CA)
       2800 Meadowview Rd., Sacramento, CA 95832 (916)262-1600
       Landline BBS open to all: (916) 262-1657
RACESBUL.270   DATE: April 19, 1993
SUBJECT: TNG - Exercise technique
     Seldom do state level radio communications exercises approximate
"real world" communications.
     Unlike health and welfare traffic, government communications
tends to be predominantly sporadic, informal, and tactical in nature.
Long periods of no communications are common. As they say in the
service, "Hurry up and wait".
     An exercise technique used successfully is that of sending the same
message over multiple channels. This means that a message from State
to a county EOC is transmitted via the RACES, Civil Air Patrol, SECURE,
Local Government or other available and appropriate radio systems.
     Following the exercise, you request that the received message forms
be mailed back to you to show both accuracy and time of receipt. In
county to city exercises, CB radio may be thrown into the mix.
                        ---Stan Harter, KH6GBX

EOM

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races
and can be retrieved using FTP.

Date: 24 Apr 93 16:50:07 GMT

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL RACES OPERATORS IN CA (ALLCA: OFFICIAL)
        ALL AMATEURS U.S.   (@ USA: INFORMATION)
FROM: CA STATE OFFICE OF EMERGENCY SERVICES (W6HIR @ WA6NWE.CA)
        2800 Meadowview Rd., Sacramento, CA 95832 (916)262-1600
        Landline BBS open to all: (916) 262-1657
RACESBUL.271   DATE: April 26, 1993
SUBJECT: MGT - Tell it like it is!
        Experienced volunteers of all kinds in government serv-
ice are accustomed to callouts where they are recalled while
enroute, or told to return upon their arrival on scene. Inexperi-
enced volunteers become upset when this happens. As managers we
should stress to potential volunteers that this may happen more
often than not. The point being that your volunteers must be
conditioned to accept this fact. Yes, that's blunt talk but a
necessary truth. Never be bashful when describing your expecta-
tions of your volunteers. It helps reduce future disappointments
among anyone serving on your regular volunteer staff.
        When you are candid up front, more people will choose
not to join than those who do. But the bonus is that it leaves
you with staff that will be with you for the long haul. I tell
each potential applicant that I expect them to be working with
this agency 5, 10, 15 years down the road. That serves to really
get the individual's attention that we are really not interested
in wasting our time and effort to accomodate "joiners" and "prima
donnas". I have done this for thirty years with communications,
search and rescue, law enforcement, firefighter, and other public
safety volunteers with superb results.
                        ---Stan Harter, KH6GBX
EOM

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races
and can be retrieved using FTP.

Subject: TH78 Cloning
To: info-hams@ucsd.edu

> I just tried it and looks like it works, but I have NO idea what it is
> supposed to do, could someone clarify this cloning thing a bit?
It means you can transfer memories, functions, and basically the complete
setup to another radio of the same type. I have a C528 which outputs the
tones to the "ear" socket. I've tried many methods of playing it back (i.e.
it would be nice to have an audio casette with different setups for different
areas of the country) but it always corrupts the 528 requiring a reset.

Over the air, to another C528, it works faultlessly, taking about 2 minutes
to transfer all settings to another radio. Just wish I could get it to play
back again... suppose the only answer is to buy another C528!

```
+-------------+-------------------------------------+-------------------+
| Dave Plumb  | Internet: dplumb@cix.compulink.co.uk  |  Fido: 2:252/21.27 |
| Enfield, UK | Packet  : G7MIL @ GB7HSN.#32.GBR.EU   +-------------------+
+-------------+-------------------------------------+
```

Date: 24 Apr 93 01:44:09 GMT
From: ogicse!emory!gatech!concert!unccsun.uncc.edu!ws45!wlhamaty@network.UCSD.EDU
Subject: Traveling into Canada
To: info-hams@ucsd.edu

This may be a kinda dumb question, but I don't know and this is the quickest
way for me to find out.
I am planning to visit Toronto for a couple of days during my vacation this
summer. Are there any rules about operating in Canada that I need to know about,
other than the 70cm restrictions? Anything I need to do ahead of time?

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[-------------------------------------------------------------------------------]
| Luke Hamaty KQ4OQ           "More than gold, I love to complain."        |
| Impact Technologies Group - Trurl, from The Cyberiad
         |
| 800-438-6017 or 704-549-1100                                             |
[-------------------------------------------------------------------------------]
```

Date: Fri, 23 Apr 1993 19:18:08 GMT
From: spooky!witr@uunet.uu.net
To: info-hams@ucsd.edu

References <q6iX2B1w165w@inqmind.bison.mb.ca>, <1qevrf$4t@hpscit.sc.hp.com>,

<1qf44aINNll@rave.larc.nasa.gov>
Reply-To : witr@rwwa.com
Subject : Re: Cable TVI interference

In article <1qf44aINNll@rave.larc.nasa.gov>, watson@nimbus.larc.nasa.gov
(Catherine Watson) writes:

| I gave up after a year of
| letters and phone calls. I got the impression the FCC was powerless and it
| was up to the cable company to correct the situation.

Isn't there some *formal* action a citizen can take that *requires* the
FCC to, at least, generate some paperwork?

--
 Robert Withrow, Tel: +1 617 598 4480, Fax: +1 617 598 4430, Net: witr@rwwa.COM
 R.W. Withrow Associates, 21 Railroad Ave, Swampscott MA 01907-1821 USA

End of Info-Hams Digest V93 #495
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